DOCUMENT RESUME

ED 194 382 SO 012 880

AUTHOR Vincent, Jack E.
TITLE Attributes and National Behavior, Part 2: Modern International Relations Monograph Series. Relative Status-Field Theory, Results for Cooperation, TT Actors, 1966-69, An Inventory of Findings.
INSTITUTION Peace Research Inst. Dundas (Ontario).
PUB DATE 80
NOTE 44p.: For part one of the Canadian collection, see ED 164 364: for other related documents, see SO 012 867-897.

EDRS PRICE MF01/PC02 Plus Postage.
DESCRIPTORS *Behavioral Science Research: *Behavior Patterns: *Cooperation: Cooperative Programs: Correlation: Economic Development: Factor Analysis: Foreign Policy: *Interaction: *International Relations: National Norms: Political Attitudes: Power Structure: Statistical Analysis: *Theories: World Affairs

ABSTRACT

This monograph presents findings from an analysis of data on international cooperation over a three-year period. A computer printout of the analysis is included. The document is part of a large scale research project to test various theories with regard to their power in analyzing international relations. In this monograph, an inventory is presented of a relative status field theory analysis of 'topdog' (T) and 'underdog' (U) behavior in the international system according to WEIS conflict data for 1966-1969. WEIS conflict data (World Event Interaction Survey) is an index which was created using the "New York Times" as a data source. Field theory maintains that international relations consists of all the attributes and interactions of nations, can be analytically divided into attributes and behavior, and exhibits dyad formations (interactions between two nations) in matters of behavior. Relative status field theory presents a break with the status-field theory approach in that it argues that status relationships ought to be treated in relative terms. Scores on variables including domestic violence, population density, economic development, political stability, and power base were compared for approximately 130 nations to determine relative status. The method involved assigning a negative or positive parameter weight on each predictive factor (such as economic development) which indicated the kind of behavior engaged in by that nation relative to other states. A model for each state was generated based on variations of 'topdog'/'underdog' behavior--'topdog' (TT actors) in this analysis. Findings indicated that nation attributes are linked (at least predictively) to cooperation and conflict export patterns and may be linked causally. Findings are based on a significance level of .05 or less. Policy implications of findings are discussed. (DB)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY
Alan G. Newcombe
Vincent
TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

U S DEPARTMENT OF HEALTH, EDUCATION & WELFARE
NATIONAL INSTITUTE OF EDUCATION
THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY

-1

ATTRIBUTES AND NATIONAL BEHAVIOR, PART 2: MODERN INTERNATIONAL RELATIONS MONOGRAPH SERIES.
RELATIVE STATUS-FIELD THEORY, RESULTS FOR COOPERATION, IT ACTORS, 1966-1969, AN INVENTORY OF FINDINGS

ED194382

BY: JACK E. VINCENT
PROFESSOR OF POLITICAL SCIENCE
FLORIDA ATLANTIC UNIVERSITY
BOCA RATON, FLORIDA 33432

©COPYRIGHT INSTITUTE OF PEACE RESEARCH
DUNDAS, ONTARIO

SO 012 880

TABLE OF CONTENTS

OF ALL DOCUMENTS INCLUDED IN

ATTRIBUTES AND NATIONAL BEHAVIOR, PART 2,

PART 2 CONSISTS OF 42 MONOGRAPHS OF A LARGE SCALE PROJECT TESTING SEVERAL ATTRIBUTE, ATTRIBUTE DISTANCE BASED THEORIES. EACH RESEARCH MONOGRAPH IS NUMBERED AND GIVEN A SUB-TITLE, LISTED BELOW. EACH FOCUSES UPON SOME ASPECT OF A LARGE SCALE RESEARCH EFFORT CORRELATING NATIONAL ATTRIBUTES TO INTERNATIONAL BEHAVIOR. ALL MONOGRAPHS CAN BE PRINTED FROM TAPE BY COMPUTER.

TAPE SPECS ARE: 9 TRACK, 800 BPI, EBCDIC, 132 CHARACTER RECORDS, 2400 FEET.

NOTE! SINCE THE CODEBOOK WAS PUBLISHED, MONOGRAPHS 1-6, 10, 27 AND 39 HAVE BEEN FURTHER EDITED, REDUNDANCY REMOVED AND GATHERED TOGETHER UNDER THE TITLE OF: PROJECT THEORY: INTERPRETATIONS AND POLICY RELEVANCE. THIS COLECTION MAY BE FOUND IN FILE 8. SINCE IT IS UPDATED, IT IS RECOMENDED THAT THIS FILE BE USED INSTEAD-OF THE ORIGINAL MATERIALS IN THE APPROPRIATE CASES. IN THE CASE OF THE OTHER FILES, THEY RETAIN THE ORIGINAL BUILT-IN REDUNDANCY.

INDEX

1. GENERATING A-SPACE FOR THE MID-1960'S: WITH AN EXAMPLE OF POSSIBLE USAGE

NATIONS ARE LOCATED ON 22 FACTOR DIMENSIONS GENERATED FROM A FACTOR ANALYSIS OF 144 ATTRIBUTE VARIABLES. FACTOR SCORES ARE PROVIDED. THE VARIOUS USES OF A-SPACE ARE DISCUSSED AND DEMONSTRATED.

2. CREATING INDEXES FOR NATIONAL CONFLICT AND COOPERATION EXPORTATIONS (1966-1969) WITH AN EMPIRICAL APPLICATION

ONE HUNDRED AND TWENTY-EIGHT STATES ARE LOCATED ON VECTORS OF CONFLICT AND COOPERATION BUILT FROM THE WEIS DATA BANK. VARIOUS USES FOR THESE VECTORS ARE ILLUSTRATED AND DISCUSSED.

3. COMPARING VARIOUS ATTRIBUTE BASED THEORIES ON SELECTED DIMENSIONS, IN TERMS OF EMPIRICAL RESULTS

WORLD MODELS FOR SOCIAL FIELD THEORY, DISTANCE THEORY, AND RELATIVE STATUS-FIELD THEORY ARE PRESENTED AND COMPARED AND DISCUSSED. POLICY PRESCRIPTIONS BASED ON EACH MODEL ARE THEN PRESENTED.

4. DISTANCE THEORY, RESULTS FOR CONFLICT, 1966-69.

DISTANCE THEORY IS TESTED ON WEIS 1966-69 DATA FOR OVER 16,000 DYADIC RELATIONSHIPS. A MODEL FOR EACH NATION IN THE SYSTEM IS GENERATED AND COMPARED TO A WORLD MODEL.

5. A STANDARDIZED APPROACH TO INTERNATIONAL RELATIONS ATTRIBUTE DATA

ONE HUNDRED AND FORTY-FOUR ATTRIBUTE VARIABLES ARE STANDARDIZED FOR 128 STATES. THE VARIOUS USES TO WHICH SUCH DATA CAN BE PUT ARE DEMONSTRATED AND THE VALUE OF UTILIZING Z-SCORES DISCUSSED.

6 DISTANCE THEORY: A COMPARISON OF VARIOUS REGIONAL GROUPINGS ON 1966-69 CONFLICT DATA

OVER 30 REGIONAL GROUPINGS SUCH AS NATO AND OAS ARE ANALYZED IN TERMS OF DISTANCE THEORY. A MODEL IS GENERATED FOR EACH REGION WHICH DESCRIBES TYPICAL CONFLICT FLOWS AND COMPARISONS ARE MADE.

7. DISTANCE THEORY, A COMPARISON OF VARIOUS REGIONAL GROUPINGS ON 1966-69 COOPERATION DATA

THIS HAS THE SAME PURPOSE AS THE SIXTH MONOGRAPH, BUT APPLIES THE DISTANCE THEORY FRAMEWORK TO COOPERATION DATA.

9. DISTANCE THEORY, RESULTS FOR COOPERATION, 1966-69.

THIS HAS THE SAME OBJECTIVES AS THE FOURTH MONOGRAPH, BUT USES COOPERATION RATHER THAN CONFLICT DATA.

10. RELATIVE STATUS-FIELD THEORY, RESULTS FOR CONFLICT, TT BEHAVIOR, 1966-69

11. RELATIVE STATUS-FIELD THEORY, RESULTS FOR COOPERATION, TT BEHAVIOR, 1966-69

12. RELATIVE STATUS-FIELD THEORY, RESULTS FOR CONFLICT, TU BEHAVIOR, 1966-69

13. RELATIVE STATUS-FIELD THEORY, RESULTS FOR COOPERATION, TU BEHAVIOR, 1966-69

14. RELATIVE STATUS-FIELD THEORY, RESULTS FOR CONFLICT, UT BEHAVIOR, 1966-69

15. RELATIVE STATUS-FIELD THEORY, RESULTS FOR COOPERATION, UT BEHAVIOR, 1966-69

16. RELATIVE STATUS-FIELD THEORY, RESULTS FOR CONFLICT, UU BEHAVIOR, 1966-69

17. RELATIVE STATUS-FIELD THEORY, RESULTS FOR COOPERATION, UU BEHAVIOR, 1966-69

THE ABOVE MONOGRAPHS CONCERN RELATIVE STATUS-FIELD THEORY AND ITS APPLICATION TO CONFLICT OR COOPERATION DATA FOR THE TIME PERIOD INDICATED. A MODEL FOR EACH STATE IS GENERATED WHENEVER A TT, TU, UT, OR UU ANALYSIS IS POSSIBLE. GENERALLY SPEAKING, THIS MEANS THAT APPROXIMATELY 30 STATES ARE GIVEN A MODEL IN ANY ONE OF THE ABOVE APPLICATIONS. IMPLICATIONS FOR POLICYMAKING ARE GENERATED FROM WORLD MODELS CONSTRUCTED OUT OF SUCH EMPIRICAL RESULTS. ALL LAYOUTS ARE STANDARDIZED.

19. STATISTICAL CONCEPTS FOR STUDENTS OF INTERNATIONAL RELATIONS

THIS PROVIDES AN INTRODUCTION TO VIRTUALLY ALL OF THE METHODOLOGY UTILIZED IN CONNECTION WITH THE GENERATION OF THE RESEARCH SUPPLEMENTS. TOPICS TREATED INCLUDE FACTOR ANALYSIS, DISCRIMINANT FUNCTION ANALYSIS, PATH ANALYSIS, AND MATRIX ALGEBRA.

26. PROJECT PROGRAMS

ALL SIGNIFICANT PROJECT PROGRAMS ARE GIVEN, MANY WITH INNOVATIVE DESIGN (OPERATION ON UNIVAC 1108, 256 K EXEC-8 OPERATING SYSTEM, LEVEL 33 R2). ALL BASIC COMMANDS ARE DEFINED IN A THOROUGH INTRODUCTION TO THE SUPPLEMENT. LOCAL PROGRAMMERS SHOULD BE ABLE TO ADJUST THE PROGRAMS FOR USE ON THEIR OWN SYSTEM.

27. DISTANCE THEORY, RESULTS FOR CONFLICT, 1966-69, AN INVENTORY OF FINDINGS

28. DISTANCE THEORY, RESULTS FOR COOPERATION, 1966-69, AN INVENTORY OF FINDINGS

29. SOCIAL FIELD THEORY, RESULTS FOR CONFLICT, 1966-69, AN INVENTORY OF FINDINGS

30. SOCIAL FIELD THEORY, RESULTS FOR COOPERATION, 1966-69, AN INVENTORY OF FINDINGS

31. RELATIVE STATUS-FIELD THEORY, RESULTS FOR CONFLICT, TT ACTORS, 1966-1969, AN INVENTORY OF FINDINGS

32. RELATIVE STATUS-FIELD THEORY, RESULTS FOR COOPERATION, TT ACTORS, 1966-1969, AN INVENTORY OF FINDINGS

33. RELATIVE STATUS-FIELD THEORY, RESULTS FOR CONFLICT, TU ACTORS, 1966-1969, AN INVENTORY OF FINDINGS

34. RELATIVE STATUS-FIELD THEORY, RESULTS FOR COOPERATION, TU ACTORS, 1966-1969, AN INVENTORY OF FINDINGS

35. RELATIVE STATUS-FIELD THEORY, RESULTS FOR CONFLICT, UT ACTORS, 1966-1969, AN INVENTORY OF FINDINGS

36. RELATIVE STATUS-FIELD THEORY, RESULTS FOR COOPERATION, UT ACTORS, 1966-1969, AN INVENTORY OF FINDINGS

37. RELATIVE STATUS-FIELD THEORY, RESULTS FOR CONFLICT, UU ACTORS, 1966-1969, AN INVENTORY OF FINDINGS

38. RELATIVE STATUS-FIELD THEORY, RESULTS FOR COOPERATION, UU ACTORS, 1966-1969, AN INVENTORY OF FINDINGS

THE ABOVE MONOGRAPHS APPLY DISCRIMINANT FUNCTION ANALYSIS TO NATIONS EXHIBITING POSITIVE VS. NEGATIVE WEIGHTS, ACROSS ALL OF THE DIMENSIONS OF A- AND D-SPACE, FOR EACH OF THE THEORIES. THUS, THE ATTRIBUTE CHARACTERISTICS OF NATIONS EXPORTING A PARTICULAR WAY, SAY TO THOSE CLOSE BELOW THEM ON ECONOMIC DEVELOPMENT, ARE IDENTIFIED AND COMPARED WITH THE CHARACTERISTICS OF THOSE EXPORTING DIFFERENTLY.

39. PATTERNS OF CONFLICT: DISTANCE THEORY

40. PATTERNS OF COOPERATION: DISTANCE THEORY

41. PATTERNS OF CONFLICT: SOCIAL FIELD THEORY

42. PATTERNS OF COOPERATION: SOCIAL FIELD THEORY

43. PATTERNS OF CONFLICT: RELATIVE STATUS-FIELD THEORY, TT ACTORS

44. PATTERNS OF COOPERATION: RELATIVE STATUS-FIELD THEORY, TT ACTORS

45. PATTERNS OF CONFLICT: RELATIVE STATUS-FIELD THEORY, TU ACTORS

46. PATTERNS OF COOPERATION: RELATIVE STATUS-FIELD THEORY, TU ACTORS

47. PATTERNS OF CONFLICT: RELATIVE STATUS-FIELD THEORY, UT ACTORS

48. PATTERNS OF COOPERATION: RELATIVE STATUS-FIELD THEORY, UT ACTORS

49. PATTERNS OF CONFLICT: RELATIVE STATUS-FIELD THEORY, UU ACTORS

50. PATTERNS OF COOPERATION: RELATIVE STATUS-FIELD THEORY, UU ACTORS

THE ABOVE MONOGRAPHS APPLY SECOND STAGE FACTOR ANALYSIS TO THE PARAMETER WEIGHTS FOR ALL THE THEORIES. SUCH ANALYSES DETERMINE WHETHER BEHAVIORAL TENDENCIES TEND TO CLUSTER. THAT IS, TO ILLUSTRATE, IF A NATION TENDS TO EXPORT CONFLICT TO OTHER NATIONS CLOSE BELOW IT IN RESPECT TO ECONOMIC DEVELOPMENT, DOES IT ALSO TEND TO DO SO IN RESPECT TO POWER BASE? ALL NATIONS ARE RANK SORTED IN TERMS OF THE VARIABLE CLUSTERS THAT DEVELOP SO THAT IT IS POSSIBLE TO DETERMINE WHETHER ANY TWO NATIONS, OR, ANY GROUP OF NATIONS, SHARE THE SAME >EXPORT PROFILES.>

NOTE: ALL MONOGRAPHS ON TAPE ARE SET UP TO PRINT ON A UNIVAC DOCUMENT PROCESSOR. SPECIAL PROGRAMS TO ASSIST IN PRINTING ON A DECWRITER II FOR UPPER AND LOWER CASE, DOUBLE SPACE, LENGTH ADJUSTED FOR THE DECWRITER AND WITH FOOTNOTE CAPABILITY, ARE CONTAINED IN MONOGRAPH 26. TABLES OR FIGURES THAT GO BEYOND 80 COLUMNS MAY BE FOLDED IF THE DOCUMENT PROCESSOR IS USED. IF THIS IS UNDESIRABLE, THEY CAN BE PRINTED BY OTHER STANDARD PRINT COMMANDS, SUCH AS AN EDITOR PROGRAM, WHICH CAN PRINT, WITHOUT FOLDING, TO 132 COLUMNS. ALSO, DOCUMENT COMMANDS ARE INVISIBLE IN THE COPY ONLY IF THE DOCUMENT PROCESSOR IS USED. IF OTHER PRINT COMMANDS ARE USED, THE DOCUMENT COMMANDS WILL BE VISIBLE, I.E., WILL APPEAR AS >DOUBLE>, >SPACE>, ETC. AND ARE LEFT JUSTIFIED. IF THEY ARE NOT NEEDED, THEY CAN BE IGNORED OR EDITED OUT. ALL MONOGRAPHS ARE IN MIXED UPPER AND LOWER CASE, EXCEPT MONOGRAPHS 19 AND 26, WHICH ARE IN UPPER CASE ONLY.

Attributes and National Behavior:

Modern International Relations Monograph Series

By Jack E. Vincent, Ph.D.
Professor of Political Science
Florida Atlantic University
Boca Raton, Florida

NOTE: Monographs 1-6, 10, 27 and 39 are available from University Press of America, 4710 Auth. Place, S.E. Washington, D.C. 20023 under the title of Project Theory, Interpretations and Policy Relevance, as well as Monograph 19 under its regular title. None of the above are reproduced in the ERIC collection, nor is Monograph 26, Project Programs, which is too long and technical for inclusion. Since tables must conform in the ERIC collection to a 8 1/2" by 11" format, many tables are folded, i.e. continue in a normal read fashion on the following line. Also, since everything is printed in fieldata, quotation marks are indicated by a >. Footnotes are flagged by XX, i.e. XX001 is the first footnote. The index which follows describes the entire tape collection, which may be obtained from Dr. Alan Newcombe, Peace Research Institute - Dudas, Dudas Ontario, L9H 4E5, under the above title.

Peace Research Institute-Dundas
Dundas, Ontario. All rights reserved.
Publishers and Sponsors of:
Peace Research Abstracts Journal
Peace Research Reviews Journal
The Canadian School of Peace Research
All proceeds go to the Institute
to foster peace research.

RELATIVE STATUS-FIELD THEORY, RESULTS FOR COOPERATION, TT ACTORS, 1966-1969, AN INVENTORY OF FINDINGS

THE ANALYSIS THAT FOLLOWS IS A COMPONENT OF A LARGER RESEARCH EFFORT THE PURPOSE OF WHICH IS TO TEST ATTRIBUTE THEORY (RUMMEL, 1969A), SOCIAL FIELD THEORY (RUMMEL, 1969A), DISTANCE THEORY (VINCENT, 1975), AND RELATIVE STATUS-FIELD THEORY, TREATING RELATIVE T = TOPDOG AND U = UNDERDOG BEHAVIOR IN THE INTERNATIONAL SYSTEM (VINCENT, 1976). ALL THEORIES ARE TESTED ON THE SAME, 1966-69, WEIS (AGGREGATED) DATA.

FULL TECHNICAL TREATMENT OF THE THEORIES AND METHODS IS GIVEN ELSEWHERE AND WILL NOT BE REPEATED HERE. THAT IS, DETAILS, SUCH AS THE CONSTRUCTION OF A-SPACE (ATTRIBUTE SPACE) OR D-SPACE (DISTANCE SPACE), ETC. CAN BE OBTAINED FROM THE RELEVANT BIBLIGRAPHIC ENTRIES. ELABORATE TECHNICAL DISCUSIONS, HOWEVER, ARE NOT REALLY NECESSARY TO UNDERSTAND OR USE THE RESULTS GENERATED HERE. IT SHOULD BE CLEAR, HOWEVER, THAT ALL OF THE INDEPENDENT VARIABLES TREATED, SUCH AS ECONOMIC DEVELOPMENT, ARE >FACTORS>, THAT IS, COMPOSITE INDEXES GENERATED OUT OF A NUMBER OF RELATED VARIABLES, USING THE TECHNIQUE OF FACTOR ANALYSIS.

WHEN THE THEORIES ARE APPLIED, EACH NATION RECIEVES A NEGATIVE OR POSITIVE PARAMETER WEIGHT ON EACH PREDICTIVE FACTOR, SUCH AS ECONOMIC DEVELOPMENT, WHICH INDICATES THE KIND OF BEHAVIORAL EXPORTATION ENGAGED IN BY THAT STATE RELATIVE TO OTHER STATES.

THE ANALYSIS PRESENTED HERE INDICATES THE RESULTS THAT OCCUR WHEN + TYPE NATION EXPORTERS ARE COMPARED TO - TYPE NATION EXPORTERS. THIS WILL BE ACCOMPLISHED BY TWO MODES OF ANALYSIS.

THE FIRST MODE WILL BE TO PERFORM A DISCRIMINANT FUNCTION ANALYSIS ON THE POSITIVE VERSUS THE NEGATIVE WEIGHT SUBJECTS, FOR EACH OF THE INDEPENDENT VARIABLES USING THE FACTORS OF A-SPACE AS DISCRIMINATORS. THE SECOND WILL BE TO CORRELATE THE FACTOR SCORES OF A-SPACE WITH THE MAGNITUDE OF THE WEIGHTS.

A BRIEF STATEMENT ON DISCRIMINANT FUNCTION ANALYSIS (HADLEY, 1961) SEEMS TO BE IN ORDER. ITS PURPOSE HERE IS TO DETERMINE, WHEN CONSIDERING TWO DIFFERENT NATION GROUPS, SCORED ON COMMON VARIABLES, WHICH OF THE VARIABLES BEST DISCRIMINATES BETWEEN NATION GROUPS. THIS IS DONE BY GIVING EACH GROUP MEMBER A DISCRIMINANT FUNCTION SCORE, WHICH IS A FUNCTION OF THE ORIGINAL VARIABLES WEIGHTED SO THAT THE MEAN OF THE DISCRIMINANT FUNCTION SCORES, FOR EACH GROUP, IS MAXIMALLY DIFFERENT. CORRELATIONS OF THE ORIGINAL VARIABLES WITH THE DISCRIMINANT FUNCTION SCORES INDICATE WHICH VARIABLES ARE THE BEST DISCRIMINATORS. FOR EXAMPLE, IF ECONOMIC DEVELOPMENT CORRELATES .60 WITH THE DISCRIMINANT FUNCTION SCORES OF A PARTICULAR ANALYSIS, SAY + WEIGHTS VS. - WEIGHTS IN RESPECT TO POWER BASE, THOSE WITH POSITIVE WEIGHTS, ON POWER BASE, WOULD TEND TO BE DEVELOPED STATES AND THOSE WITH NEGATIVE WEIGHTS, UNDERDEVELOPED STATES.

A PRODUCT OF DISCRIMINANT FUNCTION ANALYSIS IS AN F-TEST OF THE MEANS OF THE TWO GROUPS CONSIDERED ON THE VARIABLES. IN THE ABOVE EXAMPLE, IF THE MEAN OF THE + POWER STATES IS COMPARED WITH THE

MEAN OF THE - POWER STATES, IN RESPECT TO ECONOMIC DEVELOPMENT, THE MEAN OF THE FORMER STATES MIGHT BE .35, INDICATING THAT THE + POWER GROUP IS ABOVE THE SYSTEM AVERAGE IN RESPECT TO ECONOMIC DEVELOPMENT, WHILE THE - POWER STATES MIGHT HAVE A SCORE OF -.12, INDICATING THAT THE - POWER STATES ARE BELOW THE SYSTEM AVERAGE IN RESPECT TO ECONOMIC DEVELOPMENT. IF THE DIFFERENCE IS SIGNIFICANT, WE MAY CONCLUDE THAT THE + POWER STATES TEND TO BE DEVELOPED WHILE THE - POWER STATES TEND TO BE UNDERDEVELOPED.

EACH OF THE FINDINGS, WHICH FOLLOWS, IS BASED ON A SIGNIFICANCE LEVEL OF .05 OR LESS, AND COMPARES THE ATTRIBUTE CHARACTERISTICS OF THOSE WITH - VERSUS + WEIGHTS AS DETERMINED BY THE DISCRIMINANT FUNCTION ANALYSES.

THE FOLLOWING LISTS: LIST 1 = DISCRIMINANT RESULTS, POSITIVE WEIGHTS, LIST 2 = DISCRIMINANT RESULTS, NEGATIVE WEIGHTS, LIST 3 = CORRELATION RESULTS, POSITIVE WEIGHTS, LIST 4 = CORRELATION RESULTS, NEGATIVE WEIGHTS, ---- SHOW THE RELATIONSHIP OF THE NATIONAL ATTRIBUTES TO THE EXPORTATION PATTERNS.

EACH FINDING CAN BE VIEWED AS HAVING POTENTIAL POLICY IMPLICATIONS. FOR EXAMPLE, IF LOW ECONOMIC DEVELOPMENT IS ASSOCIATED WITH - WEIGHTS AND HIGH ECONOMIC DEVELOPMENT WITH + WEIGHTS, THEN, IT IS POSSIBLE THAT IF A STATE SHIFTS FROM LOW DEVELOPMENT TO HIGH DEVELOPMENT THAT ITS EXPORT WEIGHT PATTERN MAY SHIFT FROM - TO +. OBVIOUSLY SUCH AN INTERPRETATION IS SPECULATIVE SINCE >CAUSE> IS NOT CLEARLY ESTABLISHED BY THIS KIND OF ANAYLYSIS. NEVERTHELESS, THE FOLLOWING RESULTS STRONGLY SUGGEST THAT NATION ATTRIBUTES ARE LINKED (AT LEAST PREDICTIVELY) TO

EXPORT PATTERNS AND MAY BE LINKED CAUSALLY.

THE INVENIORY

LIST 1

AN INVENTORY OF FINDINGS FOR RELATIVE STATUS-FIELD THEORY, COOPERATION, A-SPACE FACTOR MEANS FOR POSITIVE WEIGHT NATIONS.

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S FAR BELOW THEM ON ECONOMIC DEVELOPMENT

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE GNP GROWTH RATE AT FIXED PRICES .5721 (MEAN GROUP SCORE IN A-SPACE)

SMALL GNP GROWTH RATE -.5708 (MEAN GROUP SCORE IN A-SPACE)

OLD CURRENCY -.4900 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S FAR BELOW THEM ON POWER BASE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POPULATION GROWTH RATE -.6269 (MEAN GROUP SCORE IN A-SPACE)

SMALL CHRISTIAN COMMUNITY .7011 (MEAN GROUP SCORE IN A-SPACE)

LOW ENERGY PRODUCTION -.9322 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON POLITICAL INSTABILITY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON NON-COMPETITIVE POLITICAL SYSTEM

TEND TO EXHIBIT THE CHARACTERISTICS OF:

COMPETITIVE POLITICAL SYSTEM -.3503 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON SMALL POPULATION GROWTH RATE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POWER BASE .5036 (MEAN GROUP SCORE IN A-SPACE)

SMALL GNP GROWTH RATE AT FIXED PRICES -.2174 (MEAN GROUP SCORE IN A-SPACE)

HIGH RATIO OF BLACK MARKET TO OFFICIAL EXCHANGE .1174 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON SMALL POPULATION DENSITY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POWER BASE .8365 (MEAN GROUP SCORE IN A-SPACE)

HIGH PER CAPITA INTERNAL SECURITY FORCE .0845 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON SMALL CHRISTIAN COMMUNITY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE CHRISTIAN COMMUNITY -.4033 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON RECENT NATIONAL INDEPENDENCE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POWER BASE .4401 (MEAN GROUP SCORE IN A-SPACE)

LONG NATIONAL INDEPENDENCE -.2658 (MEAN GROUP SCORE IN A-SPACE)

MUCH DOMESTIC VIOLENCE -.3377 (MEAN GROUP SCORE IN A-SPACE)

NEW CURRENCY .6483 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON LITTLE DOMESTIC VIOLENCE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

COMPETITIVE POLITICAL SYSTEM -.2801 (MEAN GROUP SCORE IN A-SPACE)

MUCH DOMESTIC VIOLENCE -.3742 (MEAN GROUP SCORE IN A-SPACE)

LOW RATIO OF BLACK MARKET TO OFFICIAL EXCHANGE -.3795 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON LARGE GNP GROWTH RATE AT FIXED PRICES

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE GNP GROWTH RATE .1495 (MEAN GROUP SCORE IN A-SPACE)

HIGH PER CAPITA INTERNAL SECURITY FORCE .0876 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON FEW MILITARY PERSONNEL PER CAPITA

TEND TO EXHIBIT THE CHARACTERISTICS OF:

HIGH RATIO OF BLACK MARKET TO OFFICIAL EXCHANGE .1503 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON LARGE GNP GROWTH RATE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POWER BASE .6548 (MEAN GROUP SCORE IN A-SPACE)

NON-COMPETITIVE POLITICAL SYSTEM .4631 (MEAN GROUP SCORE IN A-SPACE)

LITTLE DOMESTIC VIOLENCE .3162 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON SMALL HEALTH EXPENDITURE AS PERCENT OF GNP

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON HIGH PER CAPITA SCHOOL ENROLLMENT

TEND TO EXHIBIT THE CHARACTERISTICS OF:

NON-COMPETITIVE POLITICAL SYSTEM .4821 (MEAN GROUP SCORE IN A-SPACE)

LITTLE DOMESTIC VIOLENCE .4709 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON HIGH PER CAPITA INTERNAL SECURITY FORCE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

MUCH ETHNO-LINGUISTIC FRACTIONALIZATION -.5670 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON HIGH ENERGY PRODUCTION

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON MANY ELECTIONS

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POWER BASE .3997 (MEAN GROUP SCORE IN A-SPACE)

LARGE POPULATION GROWTH RATE -.1996 (MEAN GROUP SCORE IN A-SPACE)

SMALL CHRISTIAN COMMUNITY .4014 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON HIGH RATIO OF BLACK MARKET TO OFFICIAL EXCHA

TEND TO EXHIBIT THE CHARACTERISTICS OF:

HIGH ECONOMIC DEVELOPMENT .5289 (MEAN GROUP SCORE IN A-SPACE)

LARGE POPULATION GROWTH RATE -.2773 (MEAN GROUP SCORE IN A-SPACE)

HIGH PER CAPITA SCHOOL ENROLLMENT .2389 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON FEW EXECUTIVE ADJUSTMENTS

TEND TO EXHIBIT THE CHARACTERISTICS OF:

MANY MILITARY PERSONNEL PER CAPITA -.3709 (MEAN GROUP SCORE IN A-SPACE)

MANY EXECUTIVE ADJUSTMENTS -.4553 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON LOW CRUDE DEATH RATE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON LITTLE ETHNO-LINGUISTIC FRACTIONALIZATION

TEND TO EXHIBIT THE CHARACTERISTICS OF:

SMALL GNP GROWTH RATE -.5624 (MEAN GROUP SCORE IN A-SPACE)

SMALL HEALTH EXPENDITURE AS PERCENT OF GNP .6587 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON NEW CURRENCY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LITTLE DOMESTIC VIOLENCE .3288 (MEAN GROUP SCORE IN A-SPACE)

LIST 2

AN INVENTORY OF FINDINGS FOR RELATIVE STATUS-FIELD THEORY, COOPERATION, A-SPACE FACTOR MEANS FOR NEGATIVE WEIGHT NATIONS.

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S CLOSE BELOW THEM ON ECONOMIC DEVELOPMENT

TEND TO EXHIBIT THE CHARACTERISTICS OF:

SMALL GNP GROWTH RATE AT FIXED PRICES -.1993 (MEAN GROUP SCORE IN A-SPACE)

LARGE GNP GROWTH RATE .1218 (MEAN GROUP SCORE IN A-SPACE)

NEW CURRENCY .3512 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S CLOSE BELOW THEM ON POWER BASE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

SMALL POPULATION GROWTH RATE .2745 (MEAN GROUP SCORE IN A-SPACE)

LARGE CHRISTIAN COMMUNITY -.0573 (MEAN GROUP SCORE IN A-SPACE)

HIGH ENERGY PRODUCTION .1686 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON POLITICAL INSTABILITY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON NON-COMPETITIVE POLITICAL SYSTEM

TEND TO EXHIBIT THE CHARACTERISTICS OF:

NON-COMPETITIVE POLITICAL SYSTEM .5211 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON SMALL POPULATION GROWTH RATE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POWER BASE .9779 (MEAN GROUP SCORE IN A-SPACE)

LARGE GNP GROWTH RATE AT FIXED PRICES .5677 (MEAN GROUP SCORE IN A-SPACE)

LOW RATIO OF BLACK MARKET TO OFFICIAL EXCHANGE -.5311 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON SMALL POPULATION DENSITY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POWER BASE .3466 (MEAN GROUP SCORE IN A-SPACE)

LOW PER CAPITA INTERNAL SECURITY FORCE -.5392 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON SMALL CHRISTIAN COMMUNITY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

SMALL CHRISTIAN COMMUNITY .3045 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON RECENT NATIONAL INDEPENDENCE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POWER BASE .8793 (MEAN GROUP SCORE IN A-SPACE)

RECENT NATIONAL INDEPENDENCE .2711 (MEAN GROUP SCORE IN A-SPACE)

LITTLE DOMESTIC VIOLENCE .4007 (MEAN GROUP SCORE IN A-SPACE)

OLD CURRENCY -.3930 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON LITTLE DOMESTIC VIOLENCE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

NON-COMPETITIVE POLITICAL SYSTEM .7327 (MEAN GROUP SCORE IN A-SPACE)

LITTLE DOMESTIC VIOLENCE .5290 (MEAN GROUP SCORE IN A-SPACE)

HIGH RATIO OF BLACK MARKET TO OFFICIAL EXCHANGE .3450 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON LARGE GNP GROWTH RATE AT FIXED PRICES

TEND TO EXHIBIT THE CHARACTERISTICS OF:

SMALL GNP GROWTH RATE -.5025 (MEAN GROUP SCORE IN A-SPACE)

LOW PER CAPITA INTERNAL SECURITY FORCE -.6704 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON FEW MILITARY PERSONNEL PER CAPITA

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LOW RATIO OF BLACK MARKET TO OFFICIAL EXCHANGE -.8475 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON LARGE GNP GROWTH RATE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POWER BASE .3616 (MEAN GROUP SCORE IN A-SPACE)

COMPETITIVE POLITICAL SYSTEM -.2644 (MEAN GROUP SCORE IN A-SPACE)

MUCH DOMESTIC VIOLENCE -.3348 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON SMALL HEALTH EXPENDITURE AS PERCENT OF GNP

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON HIGH PER CAPITA SCHOOL ENROLLMENT

TEND TO EXHIBIT THE CHARACTERISTICS OF:

COMPETITIVE POLITICAL SYSTEM -.3138 (MEAN GROUP SCORE IN A-SPACE)

MUCH DOMESTIC VIOLENCE -.5030 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON HIGH PER CAPITA INTERNAL SECURITY FORCE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LITTLE ETHNO-LINGUISTIC FRACTIONALIZATION .4198 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON HIGH ENERGY PRODUCTION

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON MANY ELECTIONS

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POWER BASE .8470 (MEAN GROUP SCORE IN A-SPACE)

SMALL POPULATION GROWTH RATE .4317 (MEAN GROUP SCORE IN A-SPACE)

LARGE CHRISTIAN COMMUNITY -.2451 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON HIGH RATIO OF BLACK MARKET TO OFFICIAL EXCHANGE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

HIGH ECONOMIC DEVELOPMENT .9630 (MEAN GROUP SCORE IN A-SPACE)

SMALL POPULATION GROWTH RATE .5655 (MEAN GROUP SCORE IN A-SPACE)

LOW PER CAPITA SCHOOL ENROLLMENT -.4325 (MEAN GROUP SCORE IN

A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON FEW EXECUTIVE ADJUSTMENTS

TEND TO EXHIBIT THE CHARACTERISTICS OF:

FEW MILITARY PERSONNEL PER CAPITA .1655 (MEAN GROUP SCORE IN A-SPACE)

FEW EXECUTIVE ADJUSTMENTS .5346 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON LOW CRUDE DEATH RATE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON LITTLE ETHNO-LINGUISTIC FRACTIONALIZATION

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE GNP GROWTH RATE .2070 (MEAN GROUP SCORE IN A-SPACE)

LARGE HEALTH EXPENDITURE AS PERCENT OF GNP -.1184 (MEAN GROUP SCORE IN A-SPACE)

RELATIVE STATUS-TT I'S THAT TEND TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON NEW CURRENCY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

MUCH DOMESTIC VIOLENCE -.3010 (MEAN GROUP SCORE IN A-SPACE)

LIST 3

AN INVENTORY OF FINDINGS FOR RELATIVE STATUS-FIELD THEORY, COOPERATION, A-SPACE FACTOR CORRELATIONS WITH POSITIVE WEIGHTS

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S FAR BELOW THEM ON ECONOMIC DEVELOPMENT

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POWER BASE N= 12 P= .0269 R= .6300

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S FAR BELOW THEM ON POWER BASE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE GNP GROWTH RATE N= 8 P= .0473 R= .7100

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON POLITICAL INSTABILITY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

SMALL GNP GROWTH RATE N= 9 P= .0150 R= .7700

HIGH CRUDE DEATH RATE N= 9 P= .0113 R= .7900

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON NON-COMPETITIVE POLITICAL SYSTEM

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON SMALL POPULATION GROWTH RATE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LOW ECONOMIC DEVELOPMENT N= 31 P= .0208 R= .4100

NON-COMPETITIVE POLITICAL SYSTEM N= 31 P= .0053 R= .4900

LARGE POPULATION DENSITY N= 31 P= .0383 R= .3700

LITTLE DOMESTIC VIOLENCE N= 31 P= .0330 R= .3800

HIGH PER CAPITA SCHOOL ENROLLMENT N= 31 P= 0530 R= .3800

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON SMALL POPULATION DENSITY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RECENT NATIONAL INDEPENDENCE N= 28 P= .0286 R= .4100

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON SMALL CHRISTIAN COMMUNITY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

MUCH DOMESTIC VIOLENCE N= 15 P= .0499 R= .5100

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON RECENT NATIONAL INDEPENDENCE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LOW ECONOMIC DEVELOPMENT N= 23 P= .0224 R= .4700

SMALL POPULATION DENSITY N= 23 P= .0224 R= .4700

SMALL GNP GROWTH RATE N= 23 P= .0194 R= .4800

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON LITTLE DOMESTIC VIOLENCE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

SMALL POWER BASE N= 25 P= .0032 R= .5700

LARGE POPULATION GROWTH RATE N= 25 P= .0396 R= .4100

SMALL CHRISTIAN COMMUNITY N= 25 P= .0396 R= .4100

MANY EXECUTIVE ADJUSTMENTS N= 25 P= .0196 R= .4600

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON LARGE GNP GROWTH RATE AT FIXED PRICES

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON FEW MILITARY PERSONNEL PER CAPITA

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON LARGE GNP GROWTH RATE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LITTLE DOMESTIC VIOLENCE N= 25 P= .0065 R= .5300

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON SMALL HEALTH EXPENDITURE AS PERCENT OF GNP

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LOW ECONOMIC DEVELOPMENT N= 23 P= .0224 R= .4700

NEW CURRENCY N= 23 P= .0168 R= .4900

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON HIGH PER CAPITA SCHOOL ENROLLMENT

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LOW ECONOMIC DEVELOPMENT N= 24 P= .0144 R= .4900

SMALL CHRISTIAN COMMUNITY N= 24 P= .0168 R= .4800

HIGH PER CAPITA INTERNAL SECURITY FORCE N= 24 P= .0340 R= .4300

HIGH CRUDE DEATH RATE N= 24 P= .0340 R= .4300

LITTLE ETHNO-LINGUISTIC FRACTIONALIZATION N= 24 P= .0442 R= .4100

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON HIGH PER CAPITA INTERNAL SECURITY FORCE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RECENT NATIONAL INDEPENDENCE N= 10 P= .0492 R= .6300

FEW MILITARY PERSONNEL PER CAPITA N= 10 P= .0328 R= .6700

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON HIGH ENERGY PRODUCTION

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE CHRISTIAN COMMUNITY N= 20 P= .0134 R= .5400

LOW PER CAPITA SCHOOL ENROLLMENT N= 20 P= .0015 R= .6700

LOW RATIO OF BLACK MARKET TO OFFICIAL EXCHANGE N= 20 P= .0085 R= .5700

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON MANY ELECTIONS

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POPULATION GROWTH RATE N= 20 P= .0442 R= .4500

OLD CURRENCY N= 20 P= .0205 R= .5100

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON HIGH RATIO OF BLACK MARKET TO OFFICIAL EXCHAN

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON FEW EXECUTIVE ADJUSTMENTS

TEND TO EXHIBIT THE CHARACTERISTICS OF:

HIGH ECONOMIC DEVELOPMENT N= 32 P= .0301 R= .3800

SMALL POPULATION GROWTH RATE N= 32 P= .0067 R= .4700

LITTLE DOMESTIC VIOLENCE N= 32 P= .0406 R= .3600

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON LOW CRUDE DEATH RATE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LOW PER CAPITA INTERNAL SECURITY FORCE N= 19 P= .0315 R= .4900

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON LITTLE ETHNO-LINGUISTIC FRACTIONALIZATION

TEND TO EXHIBIT THE CHARACTERISTICS OF:

MUCH DOMESTIC VIOLENCE N= 16 P= .0135 R= .6000

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S BELOW THEM ON NEW CURRENCY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

SMALL HEALTH EXPENDITURE AS PERCENT OF GNP N= 23 P= .0194 R= .4800

HIGH PER CAPITA INTERNAL SECURITY FORCE N= 23 P= .0384 R= .4300

MUCH ETHNO-LINGUISTIC FRACTIONALIZATION N= 23 P= .0077 R= .5400

LIST 4

AN INVENTORY OF FINDINGS FOR RELATIVE STATUS-FIELD THEORY, COOPERATION, A-SPACE FACTOR CORRELATIONS WITH NEGATIVE WEIGHTS

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S CLOSE BELOW THEM ON ECONOMIC DEVELOPMENT

TEND TO EXHIBIT THE CHARACTERISTICS OF:

FEW EXECUTIVE ADJUSTMENTS N= 30 P= .0072 R= .4800

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S CLOSE BELOW THEM ON POWER BASE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POWER BASE N= 34 P= .0006 R= .5800

SMALL POPULATION GROWTH RATE N= 34 P= .0295 R= .3700

MANY MILITARY PERSONNEL PER CAPITA N= 34 P= .0465 R= .3400

LARGE HEALTH EXPENDITURE AS PERCENT OF GNP N= 34 P= .0251 R= .3800

HIGH CRUDE DEATH RATE N= 34 P= .0181 R= .4000

OLD CURRENCY N= 34 P= .0003 R= .6100

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON POLITICAL INSTABILITY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LOW RATIO OF BLACK MARKET TO OFFICIAL EXCHANGE N= 33 P= .0434 R= .3500

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON NON-COMPETITIVE POLITICAL SYSTEM

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LITTLE POLITICAL INSTABILITY N= 23 P= .0295 R= .4500

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON SMALL POPULATION GROWTH RATE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON SMALL POPULATION DENSITY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

SMALL HEALTH EXPENDITURE AS PERCENT OF GNP N= 15 P= .0223 R= .5800

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON SMALL CHRISTIAN COMMUNITY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

SMALL CHRISTIAN COMMUNITY N= 28 P= .0212 R= .4300

NEW CURRENCY N= 28 P= .0286 R= .4100

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON RECENT NATIONAL INDEPENDENCE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

FEW EXECUTIVE ADJUSTMENTS N= 20 P= .0235 R= .5000

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON LITTLE DOMESTIC VIOLENCE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

SMALL POWER BASE N= 18 P= .0071 R= .6100

MANY MILITARY PERSONNEL PER CAPITA N= 18 P= .0225 R= .5300

SMALL GNP GROWTH RATE N= 18 P= .0225 R= .5300

OLD CURRENCY N= 18 P= .0371 R= .4900

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON LARGE GNP GROWTH RATE AT FIXED PRICES

TEND TO EXHIBIT THE CHARACTERISTICS OF:

MUCH DOMESTIC VIOLENCE N= 15 P= .0099 R= .6400

HIGH ENERGY PRODUCTION N= 15 P= .0499 R= .5100

NEW CURRENCY N= 15 P= .0086 R= .6500

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON FEW MILITARY PERSONNEL PER CAPITA

TEND TO EXHIBIT THE CHARACTERISTICS OF:

SMALL CHRISTIAN COMMUNITY N= 10 P= .0161 R= .7300

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON LARGE GNP GROWTH RATE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

MUCH DOMESTIC VIOLENCE N= 18 P= .0113 R= .5800

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON SMALL HEALTH EXPENDITURE AS PERCENT OF GNP

TEND TO EXHIBIT THE CHARACTERISTICS OF:

SMALL POPULATION DENSITY N= 19 P= .0014 R= .6900

LOW CRUDE DEATH RATE N= 19 P= .0356 R= .4800

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON HIGH PER CAPITA SCHOOL ENROLLMENT

TEND TO EXHIBIT THE CHARACTERISTICS OF:

NEW CURRENCY N= 20 P= .0346 R= .4700

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON HIGH PER CAPITA INTERNAL SECURITY FORCE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LITTLE DOMESTIC VIOLENCE N= 33 P= .0235 R= .3900

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON HIGH ENERGY PRODUCTION

TEND TO EXHIBIT THE CHARACTERISTICS OF:

MUCH DOMESTIC VIOLENCE N= 22 P= .0225 R= .4800

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON MANY ELECTIONS

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON HIGH RATIO OF BLACK MARKET TO OFFICIAL EXCHAN

TEND TO EXHIBIT THE CHARACTERISTICS OF:

SMALL HEALTH EXPENDITURE AS PERCENT OF GNP N= 22 P= .0435 R= .4300

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON FEW EXECUTIVE ADJUSTMENTS

TEND TO EXHIBIT THE CHARACTERISTICS OF:

HIGH ECONOMIC DEVELOPMENT N= 12 P= .0126 R= .6900

LARGE POPULATION GROWTH RATE N= 12 P= .0375 R= .6000

SMALL POPULATION DENSITY N= 12 P= .0240 R= .6400

MANY ELECTIONS N= 12 P= .0240 R= .6400

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON LOW CRUDE DEATH RATE

TEND TO EXHIBIT THE CHARACTERISTICS OF:

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON LITTLE ETHNO-LINGUISTIC FRACTIONALIZATION

TEND TO EXHIBIT THE CHARACTERISTICS OF:

LARGE POPULATION GROWTH RATE N= 28 P= .0008 R= .6100

SMALL CHRISTIAN COMMUNITY N= 28 P= .0008 R= .6100

FEW ELECTIONS N= 28 P= .0500 R= .3700

NEW CURRENCY N= 28 P= .0182 R= .4400

RELATIVE STATUS-TT I'S MOST LIKELY TO EXPORT HIGH COOPERATION TO J'S ABOVE THEM ON NEW CURRENCY

TEND TO EXHIBIT THE CHARACTERISTICS OF:

BIBLIOGRAPHY

ADELMAN, IRMA, AND MORRIS, CYNTHIA TAFT. SOCIETY, POLITICS, AND ECONOMIC DEVELOPMENT: A QUANTITATIVE APPROACH. BALTIMORE: JOHN HOPKINS PRESS, 1967.

AZAR, E. E., COHEN, S.H., AND MCCORMICK, J. THE PROBLEM OF SOURCE COVERAGE IN THE USE OF INTERNATIONAL EVENTS DATA, INTERNATIONAL STUDIES QUARTERLY, 1972, 16, PP. 373-388.

AZAR, E.E., AND SLOAN, T.J. DIMENSIONS OF INTERACTION: A SOURCE BOOK FOR THE STUDY OF THE BEHAVIOR OF 31 NATIONS FROM 1948 THROUGH 1973. UNIVERSITY OF PITTSBURGH CENTER FOR INTERNATIONAL STUDIES, PITTSBURGH, PENNSYLVANIA, 1975A.

AZAR, E.E. TEN ISSUES IN EVENTS RESEARCH, E. AZAR AND J. BEN-DAK, EDS. THEORY AND PRACTICE OF EVENTS RESEARCH. NEW YORK, NEW YORK: GORDON AND BREACH, 1975B, PP. 1-17.

BANKS, ARTHUR S., AND TEXTOR, ROBERT. A CROSS-POLITY SURVEY. CAMBRIDGE, MASSACHUSETTS: MIT PRESS, 1963.

BANKS, ARTHUR S., AND GREGG, PHILLIP. GROUPING POLITICAL SYSTEMS: Q FACTOR ANALYSIS OF A CROSS-POLITY SURVEY, AMERICAN BEHAVIORAL SCIENTISTS, 1965, 3, PP. 3-5.

BANKS, ARTHUR S. CROSS-POLITY TIME SERIES. CAMBRIDGE, MASSACHUSETTS: MIT PRESS, 1971.

BURGESS, PHILIP M. AND MUNTON, DONALD. AN

INVENTORY OF ARCHIVED AND FUGITIVE INTERNATIONAL RELATIONS DATA. BEHAVIORAL SCIENCE LABORATORY, DEPARTMENT OF POLITICAL SCIENCE, OHIO STATE UNIVERSITY, MERSHON CENTRE, COLUMBUS, OHIO.

BURROWES, R., MUNZIO, D., AND SPECTOR, B. MIRROR, MIRROR ON THE WALL . . . A SOURCE COMPARISON STUDY OF INTER-NATION EVENT DATA, J. ROSENAU, ED. COMPARING FOREIGN POLICY: THEORIES, FINDINGS, AND METHODS. BEVERLY HILLS, CALIFORNIA: SAGE PUBLICATIONS, FORTHCOMING.

CALHOUN, HERBERT L. EXPLORATORY APPLICATIONS TO SCALED EVENT DATE, PAPER READ AT THE 13TH ANNUAL MEETING OF THE INTERNATIONAL STUDIES ASSOCIATION, DALLAS, MARCH 1972.

CATTELL, RAYMOND B. THE BASIS OF RECOGNITION AND INTERPRETATION OF FACTORS, EDUCATIONAL AND PSYCHOLOGICAL MEASUREMENT, 1962, 22, PP. 667-695.

CATTELL, RAYMOND B. THE MEANING AND STRATEGIC USE OF FACTOR ANAYLSIS, IN RAYMOND

B. CATTELL, ED., HANDBOOK OF MULTIVARIATE EXPERIMENTAL PSYCHOLOGY. CHICAGO: RAND MCNALLY, 1966.

CRABB, C.V., JR. NATIONS IN A MULTIPOLAR WORLD. NEW YORK; HARPER AND ROW, 1968.

COLLINS, JOHN. FACTOR ANALYSIS AND THE GROUPING OF EVENTS DATA: PROBLEMS AND POSSIBLE SOLUTIONS. ST. LOUIS, MISSOURI: UNIVERSITY OF MISSOURI, 1969, PP. 121-128.

DORAN, C. F., PENDLEY, R.E., AND ANTUNES, G.E. A TEST OF CROSS-NATIONAL EVENT RELIABILITY: GLOBAL VERSUS REGIONAL DATA SOURCES, INTERNATIONAL STUDIES QUARTERLY, 1973, 17, PP. 175-203.

DOUGHTERY, J.E. AND PFALTZGRAFF, R.L., JR. CONTENDING THEORIES OF INTERNATIONAL RELATIONS. NEW YORK: J.B. LIPPINCOTT CO., 1971.

DUCHACEK, I.D. CONFLICT AND COOPERATION AMONG NATIONS NEW YORK: HOLT RINEHART AND WINSTON, INC., 1960.

EAST, M.A. AND GREGG, P.M. FACTORS INFLUENCING

COOPERATION AND CONFLICT IN THE INTERNATIONAL SYSTEM, INTERNATIONAL STUDIES QUARTERLY, 1967, 11, PP. 244-269.

GOODMAN, R., HART, J., AND ROSECRANCE, R. TESTING INTERNATIONAL THEORY: METHODS AND DATA IN A SITUATIONAL ANALYSIS OF INTERNATIONAL POLITICS, SITUATIONAL ANALYSIS PROJECT, PAPER NUMBER 2, MIMEO, 1972.

GREGG, PHILLIP M. AND BANKS, ARTHUR S. DIMENSIONS OF POLITICAL SYSTEMS: FACTOR ANALYSIS OF A CROSS POLITY SURVEY, AMERICAN POLITICAL SCIENCE REVIEW, 1965, 59, PP. 602-614.

HADLEY, G. LINEAR ALGEBRA. READING, MASSACHUSETTS: ADDISON-WESTLEY, 1961.

HARMAN, HARRY H. MODERN FACTOR ANALYSIS. CHICAGO: UNIVERSITY OF CHICAGO PRESS, 1960.

HILTON, GORDON. A REVIEW OF THE DIMENSIONALITY OF NATIONS PROJECT, RICHARDSON INSTITUTE FOR CONFLICT AND PEACE RESEARCH, MIMEO, 1971.

HUGGARD, G. AN ANALYSIS OF THE REAL DATA, E. AZAR AND J. BEN-DAK, EDS., THEORY AND PRACTICE OF EVENTS RESEARCH. NEW YORK: GORDON AND BREACH, 1975, PP. 19-27.

HORST, PAUL. GENERALIZED CANONICAL CORRELATIONS AND THEIR APPLICATIONS TO EXPERIMENTAL DATA. SEATTLE: UNIVERSITY OF WASHINGTON, MIMEO, 1961A.

HORST, PAUL. RELATIONS AMONG M SETS OF MEASURES, PSYCHOMETRIKA, 1961B, 26, PP. 129-149.

HOTELLING, HAROLD. RELATIONS BETWEEN TWO SETS OF VARIATES, BIOMETRIKA, 1936, 28, PP. 321-377.

HOTELLING, HAROLD. THE MOST PREDICTABLE CRITERION, JOURNAL OF EDUCATIONAL PSYCHOLOGY, 1953, 26, PP. 139-142.

KAISER, HENRY F. THE VARIMAX CRITERION FOR ANALYTICAL ROTATION IN FACTOR ANALYSIS, PSYCHOMETRIKA, 1958, 23, PP. 187-200.

KEGLEY, CHARLES W., JR. A CIRCUMPLEX MODEL OF INTERNATIONAL INTERACTIONS, INSTITUTE OF INTERNATIONAL STUDIES, UNIVERSITY OF NORTH CAROLINA, 1976A.

KEGLEY, C. AND SKINNER, R.A. THE CASE-FOR-ANALYSIS PROBLEM IN THE COMPARATIVE STUDY OF FOREIGN POLICY, J.N. ROSENAU, ED., IN SEARCH OF GLOBAL PATTERNS. NEW YORK: FREE PRESS, 1976B.

LEWIN, KURT. FIELD THEORY IN SOCIAL SCIENCE. DORWIN CARTWRIGHT, ED. NEW YORK: HAMMER TORCH BOOKS, 1964.

MCCLELLAND, C. INTERNATIONAL INTERACTION ANALYSIS: BASIC RESEARCH AND SOME PRACTICAL APPLICATIONS, WEIS TECHNICAL REPORT NO. 2, UNIVERSITY OF SOUTHER CALIFORNIA, LOS ANGELES, 1968.

MCCLELLAND, CHARLES. WORLD EVENT INTERACTION SURVEY. ICPR EDITION, UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, 1972.

MCGOWAN, P.J. AND SHAPIRO, H.B. THE COMPARATIVE STUDY OF FOREIGN POLICY. BEVERLY HILLS, CALIFORNIA: SAGE PUBLICATIONS, 1973.

NEWCOMBE, ALAN AND WERT, JAMES. AN INTERNATION TENSIOMETER FOR THE PREDICTION OF WAR. CANADIAN PEACE RESEARCH INSTITUTE, OAKVILLE, ONTARIO, CANADA, 1972.

PARK, TONG-WHAN. ASIAN CONFLICT IN SYSTEMATIC PERSPECTIVE: APPLICATION OF FIELD THEORY (1955 AND 1963), RESEARCH REPORT NO. 35, THE DIMENSIONALITY OF NATIONS PROJECT, UNIVERSITY OF HAWAII, 1969.

PARK, TONG-WHAN. THE ROLE OF DISTANCE IN INTERNATIONAL RELATIONS: A NEW LOOK AT THE SOCIAL FIELD THEORY, PAPER, PRESENTED TO THE INTERNATIONAL STUDIES ASSOCIATION, NEW ORLEANS, 1970.

PHILLIPS, WARREN R. A MATHEMATICAL THEORY OF CONFLICT DYNAMICS, RESEARCH REPORT NO. 39, THE DIMENSIONALITY OF NATIONS PROJECT, UNIVERSITY OF HAWAII, 1970.

PHILLIPS, WARREN R. WHERE HAVE ALL THE THEORIES GONE WORLD POLITICS, 1974, 26, PP. 156-188.

POPPER, KARL. THE LOGIC OF SCIENTIFIC DISCOVERY. NEW YORK: BASIC BOOKS, 1959.

RUMMEL, R.J. FIELD THEORY AND ATTRIBUTE THEORIES OF NATIONA BEHAVIOR: SOME MATHEMATICAL INTERRELATIONSHIPS, RESEARCH REPORT NO. 31, THE DIMENSIONALITY OF NATIONS PROJECT, UNIVERSITY OF HAWAII, 1969A.

RUMMEL, R.J. FIELD THEORY AND INDICATORS OF INTERNATIONAL BEHAVIOR, RESEARCH REPORT NO. 29, THE DIMENSIONALITY OF NATIONS PROJECT, UNIVERSITY OF HAWAII, 1969B.

RUMMEL, R.J. FORCASTING INTERNATIONAL RELATIONS: A PROPOSED INVESTIGATION OF 3-MODE FACTOR ANALYSIS, TECHNOLOGICAL FORECASTING, 1969C, 1, PP. 197-216.

RUMMEL, R.J. INDICATORS OF CROSS NATIONAL AND INTERNATIONAL PATTERNS, AMERICAN POLITICAL

SCIENCE REVIEW, 1969D, 63, PP. 127-147.

RUMMEL, R.J. SOME EMPIRICAL FINDINGS ON NATIONS AND THEIR BEHVAIOR, WORLD POLITICS, 1969,E, 21, PP. 226-241.

RUMMEL, R.J. APPLIED FACTOR ANALYSIS. EVANSTON, ILLINOIS: NORTHWESTERN UNIVERSITY PRESS, 1970A.

RUMMEL, R.J. A STATUS-FIELD THEORY OF INTERNATIONAL RELATIONS, RESEARCH REPORT NO. 50, THE DIMENSIONALY OF NATIONS PROJECT, UNIVERSITY OF HAWAII, 1971.

RUSSETT, BRUCE M., ET. AL. WORLD HANDBOOK OF POLITICAL AND SOCIAL INDICATORS. NEW HAVEN, CONNECTICUT: YALE UNIVERSITY PRESS, 1964.

RUSSETT, BRUCE M. INTERNATIONAL REGIONS AND THE INTERNATIONAL SYSTEM. CHICAGO: RAND MCNALLY, 1967.

SALMORE, S.A. AND HERMANN, C.F. THE EFFECT OF SIZE, DEVELOPMENT, AND ACCOUNTABILITY ON FOREIGN POLICY, PEACE RESEARCH PAPERS, 1969, 14, PP. 15-30.

SAWYER, JACK. DIMENSIONS OF NATIONS: SIZE, WEALTH AND POLITICS, THE AMERICAN JOURNAL OF SOCIOLOGY, 1967, 73, PP. 145-172.

SIGLER, J. RELIABILITY PROBLEMS IN THE MEASUREMENT OF INTERNATIONAL EVENTS IN THE ELITE PRESS, V. DAVIS, ED., APPLICATION OF EVENTS DATA ANALYSIS: CASES, ISSUES, AND PROGRAMMES IN INTERNATIONAL INTERACTION. BEVERLY HILLS, CALIFORNIA: SAGE PUBLICATIONS, 1972.

SLOAN, THOMAS. THE DEVELOPMENT OF COOPERATION AND CONFLICT INTERACTION SCALES: AN ADVANCE IN THE MEASUREMENT AND ANALYSIS OF EVENTS DATA, STUDIES OF CONFLICT AND PEACE, DEPARTMENT OF POLITICAL SCIENCE, UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL.

TANTER, RAYMOND. DIMENSIONS OF CONFLICT BEHAVIOR WITHIN AND BETWEEN NATIONS, 1958-60, JOURNAL OF CONFLICT RESOLUTION, 1966, 10, PP. 41-64.

TAYLOR, CHARLES L. AND HUDSON, MICHAEL C.

WORLD HANDBOOK OF POLITICAL AND SOCIAL INDICATORS. FIRST ICPR EDITION. ANN ARBOR, MICHIGAN, 1971.

VINCENT, JACK E. FACTOR ANALYSIS IN INTERNATIONAL RELATIONS: INTERPRETATION, PROBLEM AREAS AND AN APPLICATION. GAINESVILLE, FLORIDA: UNIVERSITY OF FLORIDA PRESS, 1971A.

VINCENT, JACK E. GENERATING SOME EMPIRICALLY BASED INDICES FOR INTERNATIONAL ALLIANCE AND REGIONAL SYSTEMS OPERATING IN THE EARLY 1960S, (WITH JOSEPH FALARDEAU, EDWARD SCHWERIN, BARRY BOSEMAN, AND ROBERT JEDNAK). INTERNATIONAL STUDIES QUARTERLY, 1971B, 15, PP. 465-525.

VINCENT, JACK E. PREDICTING VOTING PATTERNS IN THE GENERAL ASSEMBLY, AMERICAN POLITICAL SCIENCE REVIEW, 1971C, 65, PP. 471-498.

VINCENT, JACK E. SCALING THE UNIVERSE OF STATES ON CERTAIN USEFUL MULTIVARIATE DIMENSIONS, JOURNAL OF SOCIAL PSYCHOLOGY, 1971D, 85, PP. 261-283.

VINCENT, JACK E. AN APPLICATION OF ATTRIBUTE THEORY TO GENERAL ASSEMBLY VOTING PATTERNS AND SOME IMPLICATIONS, INTERNATIONAL ORGANIZATION, 1972A, 26, PP. 551-582.

VINCENT, JACK E. COMMENTS ON SOCIAL FIELD THEORY, RESEARCH REPORT NO. 58, THE DIMENSIONALITY OF NATIONS PROJECT, UNIVERSITY OF HAWAII, 1972B.

VINCENT, JACK E. DISTANCE THEORY, FLORIDA ATLANTIC UNIVERSITY, MIMEO, 1973A.

VINCENT, JACK E. EMPIRICAL TESTS OF ATTRIBUTES, SOCIAL FIELD AND STATUS-FIELD THEORIES ON INTERNATIONAL RELATIONS DATA, (WITH ROGER BAKER, SUSAN GAGNON, KEITH HAMM, AND SCOTT REILLY). INTERNATIONAL STUDIES QUARTERLY, 1973B, 17, PP. 405-443.

VINCENT, JACK E. A CRITIQUE OF SOCIAL FIELD THEORY AND SOME SUGGESTIONS FOR FURTHER ELABORATIONS, POLITICAL METHODOLOGY, 1975, 2, PP. 151-188.

VINCENT, JACK E. EXPLORATIONS IN D-SPACE: AN APPLICATION OF DEVIANCE THEORY, COMPARATIVE POLITICAL STUDIES, 1976, 9, PP. 107-135.

VINCENT JACK E. ANALYZING INTERNATIONAL CONFLICT AND COOPERATION FLOWS: AN APPLICATION OF ATTRIBUTE THEORY, SOCIAL SCIENCE QUARTERLY, FORTHCOMING,A.

VINCENT, JACK E. NATIONAL ATTRIBUTES AND INTERNATIONAL BEHAVIOR: A SERIES OF EMPIRICAL STUDIES, CANADIAN PEACE RESEARCH INSTITUDE, FORTHCOMING,B.

WRIGHT, QUINCY. A STUDY OF INTERNATIONAL RELATIONS. NEW YORK: APPLETON-CENTURY-CROFTS, 1955.

YOUNG, ROBERT A. A CLASSIFICATION OF NATIONS ACCORDING TO FOREIGN POLICY OUTPUT, PAPER, READ AT THE 66TH ANNUAL MEETING OF THE AMERICAN POLITICAL SCIENCE ASSOCIATION, LOS ANGELES, SEPTEMBER 1970.

ZINNES, DINA A. CONTEMPORARY RESEARCH IN INTER-

NATIONAL RELATIONS: A PERSPECTIVE AND A CRITICAL APPRAISAL. NEW YORK: THE FREE PRESS, 1976.